

Step-by-Step Solutions
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FROM THE MAKERS OF WOLFRAM LANGUAGE AND MATHEMATICA

$\sqrt{x}\sqrt{x}=5$

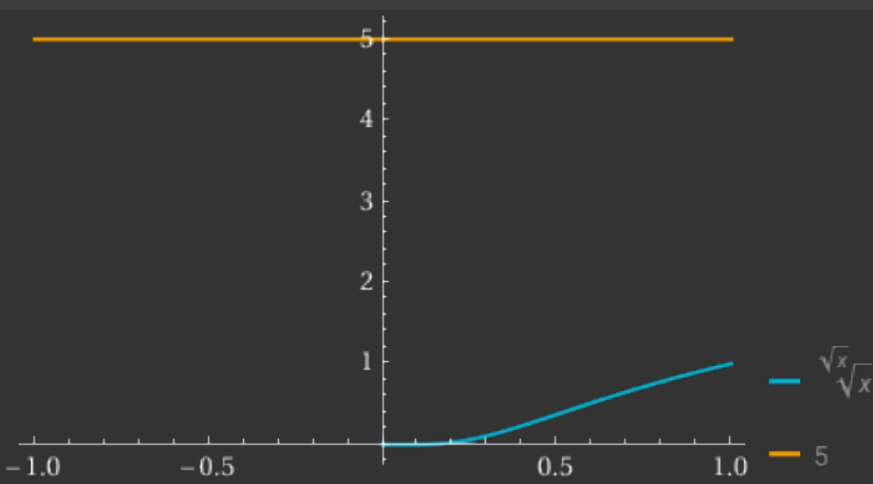


Input

$\sqrt{x}\sqrt{x}=5$



Plot



Solutions

$x = e^{-2 W\left(\frac{1}{2} (-2 i \pi n - \log(5))\right)}, \quad i (2 \pi n - i \log(5)) \neq 0, \quad -\frac{\pi}{2} \leq$

$\operatorname{Im}\left(W\left(\frac{1}{2} (-2 i \pi n - \log(5))\right)\right) < \frac{\pi}{2}, \quad n \in \mathbb{Z}$



$x = e^{-2 W_{-1}\left(\frac{1}{2} (-2 i \pi n - \log(5))\right)}, \quad i (2 \pi n - i \log(5)) \neq 0,$

$\operatorname{Im}\left(W_{-1}\left(\frac{1}{2} (-2 i \pi n - \log(5))\right)\right) \geq -\frac{\pi}{2}, \quad n \in \mathbb{Z}$



$x = e^{-2 W_1\left(\frac{1}{2} (-2 i \pi n - \log(5))\right)}, \quad i (2 \pi n - i \log(5)) \neq 0,$

$\operatorname{Im}\left(W_1\left(\frac{1}{2} (-2 i \pi n - \log(5))\right)\right) < \frac{\pi}{2}, \quad n \in \mathbb{Z}$



Approximate forms



POWERED BY THE **WOLFRAM LANGUAGE**

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analyze

<http://www.catholichealthservices.org/media/image/New...>



plot $x^{(1/\sqrt{x})} - 5$



domain of $x^{(1/\sqrt{x})} - 5$



plot3d $\arg((x + i y)^{(1/\sqrt{x + i y})} - 5)$



Mathematica function Reduce



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